

Technical Memorandum



Date:

September 12, 2007

To:

Michael Berkoff, USEPA

cc:

Jennifer Hale, Weyerhaeuser Company

From:

Jim Hutchens, RMT, Inc.

Project No.:

00-05131.04

Subject:

...

Release Report – 12th Street Landfill

As we discussed yesterday, a release of biodegradable hydraulic oil from the pump operating within the powerhouse discharge channel at the 12th Street Landfill site in Plainwell, Michigan, was experienced. Sometime during the night of September 10, 2007, one of the seals within the submersible pump began to leak. While we have someone on site monitoring pumping operations, it was not visible until the morning that a leak was occurring. The pump was shut down as soon as the problem was identified. Based on the fluid within the reservoir, it appears that 2 to 3 gallons of the material was released.

The fluid used within the pump is "EnviroLogic 146 Biodegradable Hydraulic Fluid." EnviroLogic 146 Biodegradable Hydraulic Fluid is readily biodegradable and a non-hazardous ISO 46 grade hydraulic oil based on natural ester technology and is a direct replacement for petroleum oil based hydraulic fluids. A copy of the material safety data sheet for this material is attached to this technical memorandum. The material was pumped along with water from the channel into the secondary containment area which is a roll-off dumpster surrounded by impermeable silt curtains. The majority of fluid was contained within this area and absorbent pads were used to remove as much of the residual fluid as possible. A new pump was delivered to the site and placed within the channel area and the defective pump will be removed from the site.

The release was reported to the National Response Center under Report No. 848512. A copy of the release report is also attached to this technical memorandum. Photographs of the area taken this morning are also included.

If you have any questions or need additional information, please contact me at 262-879-1212.



Material Safety Data Sheet

EnviroLogic® 146 Biodegradable Hydraulic Fluid

Section Chemical Rroduct and Company Information

Terresolve Technologies Ltd.

35585 Curtis Blvd. Eastlake, Ohio 44095 Phone: 440-951-8633

440-951-4341

PRODUCT TRADE NAME:

CAS NO:

SYNONYMS:

GENERIC/CHEMICAL NAME:

PRODUCT TYPE:

PREPARATION/REVISION DATE:

TRANSPORTATION EMERGENCY PH NO:

EnviroLogic ® 146

Not applicable for mixtures.

None.

Mixture.

Biodegradable Hydraulic Fluid

09/01/04

1-800-661-3558

Section 2 Composition/Information On Ingredients

NAME

CAS#

%wt.

This material has no known hazards under applicable laws.

Section 3 Hazards Identification

PRINCIPAL HAZARDS: This material has no known hazards.

See Section 11 for complete health hazard information.

Section 4 Section First Ald Measures

ORAL:

DO NOT INDUCE VOMITING. If conscious, give 2 glasses of

water. Get immediate medical attention.

EYE:

Flush with water at least 15 minutes. Get medical attention if

eye irritation develops or persists.

SKIN:

Wash with soap and water. Get medical attention if irritation

develops. Launder contaminated clothing before reuse.

INHALATION:

Remove exposed person to fresh air if adverse effects

are observed.

ADDITIONAL:

Note to physician: Treat symptomatically.

Section 5 Firefighting Measures

FLASH POINT (Typical):

>400 °F (Typical) (COC)



EnviroLogic® 146 Hydraulic Oil

Material Safety Data Sheet

UPPER FLAMMABLE LIMIT:

Not Determined

LOWER FLAMMABLE LIMIT:

Not Determined.

EXTINGUISHING MEDIA:

CO2, dry chemical, or foam. Water can be used to cool

and protect exposed material.

SPECIAL FIREFIGHTING

PROCEDURES:

Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will

Toxic fumes, gases or vapors may evolve on burning.

float on water.

UNUSUAL FIRE &

EXPLOSION HAZARDS:

AUTOIGNITION TEMPERATURE: EXPLOSION DATA: Not Determined.

Material does not have explosive properties.

Section 6 Accidental Release Measures

SPILL PROCEDURES: Personal Protective Equipment

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Pick up free liquid for recycle and/or disposal. Residual

liquid can be absorbed on inert material.

Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting

requirements for spills.

Section 7 Handling and Storage

HANDLING PROCEDURES:

Keep containers closed when not in use. Wash thoroughly

after handling. Empty container contains product residue

which may exhibit hazards of product.

STORAGE PROCEDURES:

No special storage precautions required.

Section 8 Exposure Controls/Personal Protection

VENTILATION PROCEDURE:

Use with adequate ventilation.

GLOVES PROTECTION:

Use nitrile or neoprene gloves.

EYE PROTECTION:

Safety Glasses.

RESPIRATORY PROTECTION:

Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist

mask if the recommended exposure limit is exceeded.

CLOTHING

RECOMMENDATION:

Long sleeve shirt is recommended.

Section 9 Physical And Chemical Properties

EnviroLogic® 146 Hydraulic Oil

Material Safety Data Sheet

VAPOR PRESSURE:

Not Determined.

PH:

Not Determined.

SPECIFIC GRAVITY:

0.92 at 15.6 Deg C

WATER SOLUBILITY:

Insoluble.

PERCENT VOLATILE:

Unknown.

VAPOR DENSITY:

Not Determined.

EVAPORATION RATE:

Not Determined.

ODOR:

Mild

APPEARANCE:

Golden liquid

VISCOSITY:

46 Centistokes at 40 Deg C (Typical)

ODOR THRESHOLD:

Unknown.

BOILING POINT:

Not Determined.

FREEZING POINT:

Not Determined.

MOLECULAR WEIGHT:

Not Determined

Section 10 Stability And Reactivity

STABILITY:

Material is normally stable at moderately elevated

temperatures and pressures.

INCOMPATIBILITY:

Oxidizing agents.

POLYMERIZATION:

Will not occur.

THERMAL

Smoke, carbon monoxide, aldehydes and other products of

DECOMPOSITION:

incomplete combustion.

Section: # 11 -- Toxicological Information

ORAL TOXICITY:

The LD50 in rats is > 5000 mg/kg. Based on data from

components or similar materials.

EYE IRRITATION:

Not expected to cause eye irritation. Based on data from

components or similar materials.

SKIN IRRITATION:

Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

DERMAL TOXICITY:

The LD50 in rabbits is > 2000 mg/Kg. Based on data from

components or similar materials.



INHALATION TOXICITY:

No data available to indicate product or components may be a

toxic inhalation hazard.

RESPIRATORY IRRITATION:

If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a

problem.

DERMAL SENSITIZATION:

No data available to indicate product or components may be a

skin sensitizer.

INHALATION

SENSITIZATION:

No data available to indicate product or components may be

respiratory sensitizers.

CHRONIC TOXICITY:

No data available to indicate product or components present

at greater than 1% are chronic health hazards.

CARCINOGENICITY:

No data available to indicate any components present at

greater than 0.1% may present a carcinogenic hazard.

MUTAGENICITY:

No data available to indicate product or any components

present at greater than 0.1% are mutagenic or genotoxic.

REPRODUCTIVE TOXICITY:

No data available to indicate either product or components

present at greater than 0.1% that may cause reproductive

toxicity.

TERATOGENICITY:

No data available to indicate product or any components

contained at greater than 0.1% may cause birth defects.

OTHER:

No other health hazards known.

EXPOSURE LIMITS:

EXPOSURE LIMITS: Contains natural ester base oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic

meter.

Section	12	Ecolog	cal	Informa	tion

FRESHWATER FISH

TOXICITY:

Fathead minnow, 96h LC50, ppm EPA Test Method 797,1400

>10.000

FRESHWATER

INVERTEBRATES TOXICITY:

Daphnia magna, 48h, EC50, ppm EPA Test Method 797.1300

>10.000

ALGAE TOXICITY:

Algae EC50, ppm

100 - 1000

BACTERIA TOXICITY:

EPA Test Method 797 1050 Sludge respiration inhibition, EC50, ppm

>10,000

ENVIRONMENTAL FATE:

Product shows a biodegradability of >60% as measured by

OECD 301B (Mod. Sturm) test procedure.



Section 13 Disposal Considerations

WASTE DISPOSAL:

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local

laws.

Section 14 Transport Information

U.S.DOT BULK SHIPPING DESCRIPTION:

Not applicable

U.S.DOT NON-BULK SHIPPING DESCRIPTION:

Not applicable

IMDG SHIPPING DESCRIPTION:

Not applicable.

ICAO SHIPPING DESCRIPTION:

Not applicable.

ADR/RID HAZARD CLASS:

Not applicable.

Section 15 Regulatory Information

U.S. TSCA

All components of this material are on the US TSCA Inventory.

INVENTORY:

SARA EXT. HAZ. SUBST.:

substance on the SARA Extremely Hazardous Substances list.

SARA SECTION 313:

This product does not contain greater than 1.0% (greater than 0.1% for

This product does not contain greater than 1.0% of any chemical

carcinogenic substance) of any chemical substances listed under

SARA Section 313.

CERCLA HAZARDOUS SUBSTANCES: None known.

CAL. PROP. 65:

This product does not contain chemical(s) known to the state of

California to cause cancer and/or birth defects based on maximum

impurity levels of components.

U.S. FUEL REGISTRATION:

Not applicable.

U.S. DEPT. OF AGRICULTURE:

This product has not been filed with the USDA to support H2

approvals.

EEC EINECS:

All components are in compliance with the EC Seventh amendment

Directive 92 /32/EEC.

JAPAN MITI:

All components are in compliance with the Chemical Substances

Control Law of Japan.

AUSTRALIA:

All components are in compliance with chemical notification

requirements in Australia.

CANADA:

All components are in compliance with the Canadian Environmental

Protection Act.



EnviroLogic[®] 146 Hydraulic Oil

Material Safety Data Sheet

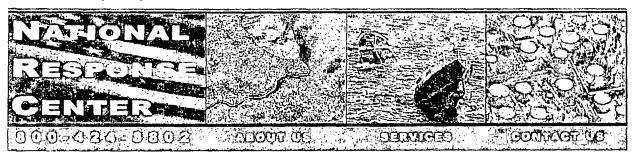
Section 16 Other Information

NFPA CODE: Health: 1 Fire: 1 Reactivity: 0

HMIS CODE: Health: 1 Fire: 1 Reactivity: 0

PRECAUTIONARY LABELS: This material has no known hazards.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of the knowledge of Terresolve Technologies Ltd..; however, Terresolve Technologies makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Terresolve Technologies assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all risks.



:: ONLINE REPORTING > FIXED REPORT :: 848512 Report #					
Fields displayed in RED are mandatory entries. Please fill out the form as completely as possible.					
Is this a DRILL Report? YES 6 NO	E-Mail Address: james.hutchens@rmtinc.con				
REPORTING PARTY	SUSPECTED RESPONSIBLE PARTY				
Phone 1: 262-879-1212 Type: Primary	Last Name:				
Last Name: Hutchens	First Name:				
First Name: James	Phone 1: Type: Phone Type				
Phone 2: 414-687-2428 Type: Cellular •	Phone 2: Type: Phone Type				
Phone 3: Type: Phone Type	Phone 3: Type: Phone Type				
Company: RMT Inc.	Company:				
Org Type: Private Enterprise ▼	Org Type: Private Enterprise				
Address: 150 N patrick Blvd	Address:				
city: Brookfield	City:				
State: Wisconson 🔻	State: Choose State				
zip: 53045	ZIP:				
Are you calling on behalf of responsible party:	€ Yes C No				
Are you or your company responsible for Material released:	€ Yes C No				
INCIDENT DESCRIPTION					
Description of Incident: Using hydraulic pump to remove water for a USEPA Superfund Emergency Action site. A seal on the hydraulic pump, malfunctioned allowing approximately 2-3 gallons of					
Incident Date: 11 SEP 2007 Time: 7AM	Occurred/Discovered/Planned: Discovered				
Type of Incident: FIXED	Incident Cause: Equipment Failure				

Package: C Yes 6 No

INCIDENT LOCATION	
Location Description:	
Former Powerhouse Channel Kalamazoo River adjacent to the 12th Street Landfill	
State: Michigan Address Location:	
12th Street County: Allegan	
ZIP:	
Nearest City: Plainwell Distance from Nearest City: 0.5 Units: Miles	
Direction: Choose Direction Range: Section: Township: Otsego	
Latitude: Degrees: 42 Minutes: 27 Seconds: 24.5 Quadrant: North	
Longitude: Degrees: 85 Minutes: 40 Seconds: 9.5 Quadrant: West	
FIXED INCIDENT LOCATION DETAILS	
Facility Name/ ID: 12th Street Landfill	
FIXED INCIDENT DESCRIPTION DETAILS	
Fixed Object / Facility Type: Construction Site	
Compliance with NPDES Permits:	
Power Generating Facility: C Yes No C Unknown Type of Fuel: Choose Type of Fuel	
Generating Capacity:	
MATERIAL INVOLVED	
MATERIAL #1 Material: Envirologic 146 Biodegradable Hydraulic FI CHRIS Code: CAS Code:	
Amount Released: 2-3 Units: GALLONS Amount in Water: 2-3 Units: GALLONS	
MATERIAL #2 Material: CHRIS Code: CAS Code:	
Amount Released: Units: Choose Unit Amount in Water: Units: Choose Unit	
MATERIAL #3	
Material: CHRIS Code: CAS Code:	
Amount Released: Units: Choose Unit Amount in Water: Units: Choose Unit	
MATERIAL #4	
Material: CHRIS Code: CAS Code:	
Amount Released: Units: Choose Unit Amount in Water: Units: Choose Unit	

MATERIAL #5		
Material:	//	CHRIS Code: CAS Code:
Amount Released:	Units: Choose Unit	Amount in Water: Units: Choose Unit
	MATERIAL	IN WATER INFORMATION
Body of Water Affected:	Kalamazoo River o	ffshore: C Yes 6 No River Mile Marker:
Tributary of:	Water	Supply Contaminated: C Yes 6 No C Unknown
Water Temperature:	Units: Choose Unit	
Wave Condition: Choos	e Condition Speed:	Units: Choose Unit Direction: Choose Direction
	SHE	EEN INFORMATION
Sheen Length: Contain	ed wit Units: Choose Uni	Sheen Width: Units: Choose Unit
Color: Choo	ose Color Directio	n of Movement: Choose Direction
Odor Description:		
	IMP	ACT INFORMATION
Medium Affected: Choos	se Medium 🔻 Detailed Med	ium Information:
Fire:	C Yes	Fire Extinguished: C Yes C No @ Unknown
Injuries:	C Yes ♠ No C Unknown	Number of Injuries: Number to Hospital: Rail Employee Injuries: Rall Passenger Injuries:
Fatalities:	C Yes ● No C Unknown	Number of Fatalities: Employee Fatalities: Passenger Fatalities: Vehicle Fatalities:
Evacuations:	C Yes © No C Unknown	Number Evacuated: Radius/Area in Miles: Who was Evacuated: Choose Who was Evacuated
Damages:	C Yes © No C Unknown	Damage in Dollars:
Road Closed:	C Yes No C Unknown	Road: Major Artery: Yes No Hours Closed: Direction of Closure: Choose Closure Direction
Track Closed: Passengers Transferred:	C Yes No C Unknown	Track: Hours Closed: Direction of Closure: Choose Closure Direction
Air Corridor Closed:	C Yes . No C Unkriown	Air Corridor:

		Hours Closed:		
Waterway Closed:	C Yes @ No C Unknown	Waterway:		
<u> </u>		Hours Closed:		
Environmental Impact:	C Yes C No 💽 Unknown	Type of Impact: Choose Type of Impa	ict ,💌	
		Media Interest: Choose Media Inter	rest 🔽	
	WEA ⁻	HER INFORMATION		
Weather Conditions:	Clear Air Te	nperature: 65 Farenheit		
Wind Speed:	Unit: Choose Unit	nd Direction: Choose Wind Direction		
	REMEDIA	ACTION INFORMATION		
		Duration: 20 Unit: Minute	T on pamp	
	ADDITIONA	AGENCY INFORMATION	· · · · · · · · · · · · · · · · · · ·	
Federal Agency Notified:		USEPA		
State/Local Agency Notified:		MDEQ		
State/Local Agency On-Scene:		MDEQ		
State Agency's Report Number:				
	ADDIT	ONAL INFORMATION		
dditional Information:				
			À E	

Submit Fixed Report

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Photographic Log

	Client Name:		Site Location:	Project No.:
Weyerhaeuser Company		pany	12 th Street Landfill Plainwell, Michigan	00-05131.04
Photo No.	Date			e e
1	9/11/07	D / A		
Description				Po Po
Area adjacent to dumpster within first silt curtain				

Photo No.	Date
2	9/11/07

Description

Secondary silt curtain area – minimal sheen on water





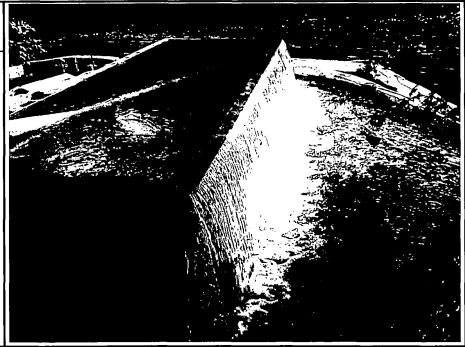
Photographic Log

Client Name:			Site Location:		Pro	Project No.:	
Weyerhaeuser Company		any	12 th Street Landfill Plainwell, Michigan		00-	00-05131.04	
Photo No.	Date		WY YEAR	NA COURS			
3	9/11/07	The state of the s			4/18/	TXX	
Description				性	743		
Area along shoreline adjacent to silt curtains some sheen within area							

Photo No.	Date
4	9/11/07

Description

Dissipation tank – no remaining visual sheen



EPA/MDEQ/Weyerhaeuser Meeting EPA Region 5 Office, Room 611 Monday, April 7, 2008 9:00 AM Central Meeting Agenda

Dial-In Number: (866) 299-3188 Conference Code: 3123538730

Discussion Outline:

- 1. Introductions EPA
- 2. Discussion and Resolution of EPA concerns All
- 3. Discussion of Limited Residential Re-Development All
- 4. Identify and discuss methods to improve the project coordination and communications All
- 5. Project Status Updates Weyerhaeuser
- 6. Action Items All

	Notes:
}	Communication the key, gapt going buch to rear beginny project up date!
	principle of the second of the
	Statements about sampling - Sample confusion.
	FTP site for stuff.
	• 10